

# **CIRCULAR TABLE**

## **BACKGROUND OF THE INVENTION**

### **1. Field of the Invention**

The present invention relates to a circular table, and more  
5 particularly to a circular table that is expanded easily and rapidly and is folded  
easily when not in use, thereby enhancing the versatility of the circular table.

### **2. Description of the Related Art**

A conventional table is available for providing a support effect,  
thereby facilitating the user using the table. However, the conventional table  
10 has a fixed structure and cannot be folded when not in use, thereby increasing  
space of storage, and thereby causing inconvenience in storage, package and  
transportation.

## **SUMMARY OF THE INVENTION**

The primary objective of the present invention is to provide a circular  
15 table that is supported rigidly and stably when being expanded and is folded  
when not in use, thereby enhancing the versatility of the circular table.

Another objective of the present invention is to provide a circular  
table, wherein the two support units are expanded outward rapidly to support  
the table board rigidly and stably, thereby facilitating the user expanding the  
20 circular table.

A further objective of the present invention is to provide a circular  
table, wherein the support units are folded in the receiving space of the table

board to fold the circular table when not in use, thereby saving space of storage, package and transportation.

In accordance with the present invention, there is provided a circular table, comprising a table board, and two opposite support units each foldably  
5 mounted on a bottom of the table board, wherein:

the bottom of the table board is formed with a receiving space; and

each of the two support units is mounted in the receiving space of the table board and includes a support stand pivotally mounted on one of two ends of the table board, and a support member pivotally mounted on a mediate of the  
10 table board and pivotally connected with the support stand.

Further benefits and advantages of the present invention will become apparent after a careful reading of the detailed description with appropriate reference to the accompanying drawings.

### **BRIEF DESCRIPTION OF THE DRAWINGS**

15 Fig. 1 is a perspective view of a circular table in accordance with the preferred embodiment of the present invention;

Fig. 2 is a bottom perspective view of the circular table as shown in Fig. 1;

Fig. 3 is a front plan view of the circular table as shown in Fig. 1;

20 Fig. 4 is a bottom plan folded view of the circular table as shown in Fig. 1;

Fig. 5 is a plan cross-sectional view of the circular table taken along line 5-5 as shown in Fig. 4;

Fig. 6 is a partially enlarged view of the circular table as shown in Fig. 5;

5 Fig. 7 is a partially enlarged view of the circular table as shown in Fig. 4;

Fig. 8 is a partially enlarged view of the circular table as shown in Fig. 4;

Fig. 9 is a perspective view of a circular table in accordance with  
10 another embodiment of the present invention;

Fig. 10 is a bottom perspective view of the circular table as shown in Fig. 9;

Fig. 11 is a side plan view of the circular table as shown in Fig. 9; and

Fig. 12 is a bottom plan folded view of the circular table as shown in  
15 Fig. 9.

### **DETAILED DESCRIPTION OF THE INVENTION**

Referring to the drawings and initially to Figs. 1-8, a circular table 5 in accordance with the preferred embodiment of the present invention comprises a table board 1, and two opposite support units 4 each foldably  
20 mounted on a bottom of the table board 1.

The bottom of the table board 1 is formed with a receiving space 11. The receiving space 11 of the table board 1 has two opposite sides each

provided with a support tube 11 which is secured on the table board 1 by a plurality of screws 13 as shown in Figs. 5-7.

Each of the two support units 4 is mounted in the receiving space 11 of the table board 1 and includes a support stand 2 pivotally mounted on one of  
5 two ends of the table board 1, and a support member 3 pivotally mounted on a mediate of the table board 1 and pivotally connected with the support stand 2.

The support stand 2 of each of the two support units 4 is provided with an auxiliary locking member 21 having a mediate portion formed with a substantially C-shaped holder 22.

10 The support member 3 of each of the support units 4 includes a substantially T-shaped support bar 30 having a first end pivotally mounted on the mediate portion of the table board 1, and a substantially V-shaped extension bar 32 having a first end pivotally mounted on a second end of the support bar 30 and a second end pivotally mounted on the auxiliary locking  
15 member 21 of the support stand 2. The support member 3 of each of the support units 4 further includes two auxiliary support bars 31 each mounted on the support bar 30. The two auxiliary support bars 31 are arranged on the support bar 30 in a substantially V-shaped manner to support the support bar 30. The support bars 30 of the two support units 4 are juxtaposed to each other as  
20 shown in Fig. 2.

The receiving space 11 of the table board 1 is formed with a plurality of receiving recesses 14 for receiving the support stand 2 and the support member 3 of each of the support units 4 when being folded.

In practice, as shown in Figs. 1-3, the support stand 2 of each of the support units 4 is pulled outward relative to the table board 1 to drive the support member 3 to extend outward, thereby fully stretching the support member 3, so that the table board 1 is supported by the two support units 4 rigidly and stably, thereby fully expanding the circular table 5 as shown in Fig. 1.

As shown in Figs. 4-8, when the user wishes to fold the circular table 5, the support stand 2 of each of the support units 4 is pressed toward the table board 1 to drive the support member 3 to move and pivot inward, thereby moving and folding the support member 3 and the support stand 2 into the receiving recesses 14 of the table board 1, so that the support units 4 are folded in the receiving space 11 of the table board 1, thereby folding the circular table 5 as shown in Fig. 8. When the support member 3 and the support stand 2 are folded, the holder 22 of the support stand 2 is clamped on the support bar 30 the support member 3, so that the support member 3 is combined with the support stand 2.

Accordingly, the two support units 4 are expanded outward rapidly to support the table board 1 rigidly and stably, thereby facilitating the user expanding the circular table 5. In addition, the support units 4 are folded in the

receiving space 11 of the table board 1 to fold the circular table 5 when not in use, thereby saving space of storage, package and transportation.

Referring to Figs. 9-12, a circular table 8 in accordance with the preferred embodiment of the present invention comprises a table board 6  
5 having a larger diameter, and two opposite support units 7 each foldably mounted on a bottom of the table board 6.

The bottom of the table board 6 is formed with a receiving space 61. The receiving space 61 of the table board 6 has two opposite sides each provided with a support tube 62 which is secured on the table board 6 by a  
10 plurality of screws 63.

Each of the two support units 7 is mounted in the receiving space 61 of the table board 6 and includes a support stand 71 pivotally mounted on one of two ends of the table board 6, and a support member 76 pivotally mounted on a mediate of the table board 6 and pivotally connected with the support  
15 stand 71. The support stand 71 of each of the two support units 7 is provided with an auxiliary locking member 72. The support member 76 of each of the support units 7 includes a substantially T-shaped support bar 73 having a first end pivotally mounted on the mediate portion of the table board 6, and a substantially V-shaped extension bar 75 having a first end pivotally mounted  
20 on a second end of the support bar 73 and a second end pivotally mounted on the auxiliary locking member 72 of the support stand 71. The support member 76 of each of the support units 7 further includes two auxiliary support bars 74

each mounted on the support bar 73. The two auxiliary support bars 74 are arranged on the support bar 73 in a substantially V-shaped manner to support the support bar 73. The support bars 73 of the two support units 7 are spaced from each other as shown in Fig. 10.

5           The receiving space 61 of the table board 6 is formed with a plurality of receiving recesses 64 for receiving the support stand 71 and the support member 76 of each of the support units 7 when being folded.

          Although the invention has been explained in relation to its preferred embodiment(s) as mentioned above, it is to be understood that many other  
10 possible modifications and variations can be made without departing from the scope of the present invention. It is, therefore, contemplated that the appended claim or claims will cover such modifications and variations that fall within the true scope of the invention.